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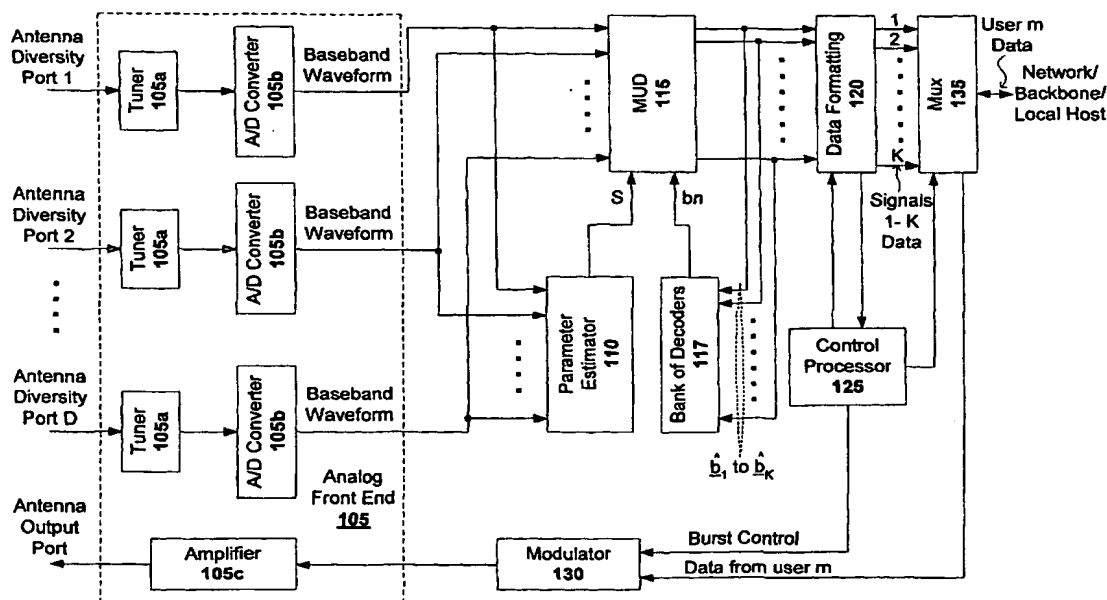
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(54) Title: **BANDWIDTH EFFICIENT WIRELESS NETWORK MODEM**



(57) Abstract: A modem that provides efficient use of wireless network bandwidth in the presence of multi-user interference and noise comprising a multi-user detection module (115), a data formatting module (120), a control processor (125) and a demultiplexer (135).

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